

1 **CLAIMS**

2 1. A remote controlled system comprising:
3 a remote controller; and
4 a general-purpose computer coupled to communicate with the remote
5 controller and a controlled device to facilitate remote control of the controlled
6 device by the remote controller.

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8 2. A remote controlled system of claim 1, wherein the remote controller
9 has a display and one or more input mechanisms that enable user input.

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11 3. A remote controlled system of claim 1, wherein the remote controller
12 is embodied as a cellular phone.

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14 4. A remote controlled system of claim 1, wherein the controlled device
15 is embodied as a home device selected from a group of home devices comprising a
16 television, a stereo, a radio, a VCR, a set top box, lighting controller, and alarm
17 controller.

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19 5. A remote controlled system of claim 1, wherein the general-purpose
20 computer is embodied as a desktop computer.

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22 6. A remote controlled system of claim 1, wherein the general-purpose
23 computer runs an open platform operating system.

1 7. A remote controlled system of claim 1, wherein the general-purpose
2 computer is configured to expose a universal plug and play (UPnP) application
3 program interface (API) through which the remote controller and the controlled
4 device may make calls to the general-purpose computer.

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6 8. A remote controlled system of claim 1, wherein the general-purpose
7 computer is configured to communicate with the remote controller and the
8 controlled device using a wireless communication protocol.

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10 9. A remote controlled system of claim 1, further comprising an
11 application program stored and executed on the general-purpose computer, the
12 application program directing the computer to provide UI information to the
13 remote controller that may be used by a user to enter control data for controlling
14 the controlled device and to translate the control data received from the remote
15 controller into commands that are sent to the second device to effectuate an action
16 intended by the user.

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18 10. A remote controlled system of claim 1, further comprising multiple
19 remote controllers and multiple controlled devices, the general-purpose computer
20 is coupled to communicate with the multiple remote controllers and the multiple
21 controlled devices to facilitate remote control of any one of the controlled devices
22 by any one of the remote controllers.

1 **11.** A remote controlled system comprising:

2 a first device having a user interface (UI); and

3
4 a facilitator communicatively coupled to the first and a second device to
5 facilitate remote control of the second device by the first device, the facilitator
6 providing UI information to the first device that may be used by a user to enter
7 control data for controlling the second device to perform an action, the facilitator
8 translating the control data received from the first device into commands that are
9 sent to the second device to effectuate the action intended by the user.

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11 **12.** A remote controlled system of claim 11, wherein the facilitator
12 comprises a general-purpose computer.

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14 **13.** A remote controlled system of claim 11, wherein the facilitator
15 comprises a general-purpose computer that runs an open platform operating
16 system.

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18 **14.** A remote controlled system of claim 11, wherein the facilitator is
19 configured to expose a universal plug and play (UPnP) application program
20 interface (API) through which the first and second devices may make calls to the
21 facilitator.

1 **15.** A remote controlled system of claim 11, wherein the facilitator is
2 configured to communicate with the first and second devices using a wireless
3 communication protocol.

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5 **16.** A remote controlled system of claim 11, wherein the UI of the first
6 device comprises one or more input components to permit user entry of the control
7 data, the UI information being associated with the input components so that
8 selection of a particular input component by the user results in generation of
9 particular control data.

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11 **17.** A remote controlled system of claim 11, wherein the UI of the first
12 device includes a display and the UI information includes text strings for display
13 on the UI display.

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2 **18.** A clock radio comprising:
3 a clock;
4 a user interface (UI) to enable user input;
5 one or more speakers; and
6 a general-purpose computer, remote from but communicatively coupled to

7 the UI and speakers, to facilitate remote control of the speakers by the UI.

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9 **19.** A clock radio of claim 18, wherein the clock, the UI, and the
10 speakers are integrated in a common housing.

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12 **20.** A clock radio of claim 18, wherein the general-purpose computer
13 runs an open platform operating system.

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15 **21.** A clock radio of claim 18, wherein the general-purpose computer is
16 configured to expose a universal plug and play (UPnP) application program
17 interface (API) through which the UI and the speakers may make calls to the
18 general-purpose computer.

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20 **22.** A clock radio of claim 18, wherein the general-purpose computer is
21 configured to communicate with the UI and the speakers using a wireless
22 communication protocol.

1 **23.** A computer, comprising:

2 one or more processors;

3 computer-readable media including computer-executable instructions that,

4 when executed by the one or more processors, cause the computer to:

5 send information to a first device to configure a display means in the first
6 device to display information related to the control of a second device;

7 receive from the first device control data for controlling the second device;

8 convert the received control data into control commands for the second
9 device; and

10 send the control commands to the second device.

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12 **24.** A computer as defined in claim 23, wherein the first device and the
13 second device are physically connected.

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15 **25.** A computer as defined in claim 23, wherein the computer-executable
16 instructions further cause the computer to expose a set of universal plug and play
17 (IPnP) application program interfaces (APIs) through which information may be
18 communicated to the first device.

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20 **26.** A computer as defined in claim 23, wherein the computer-executable
21 instructions further cause the computer to receive and store a schema of the first
22 device.

1 **27.** A computer as defined in claim 23, wherein the computer-executable
2 instructions further cause the computer to receive and store a schema of the first
3 device, the schema including a description of the first device.
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1 **28.** A system comprising:

2 a remote controller having a user interface (UI); and

3 a general-purpose computer in communication with the remote controller;

4 and

5 computer-readable media including computer-executable instructions that,
6 when executed by the general-purpose computer, cause the general-purpose
7 computer to:

8 receive from the remote controller information defining operational
9 parameters of the UI;

10 send information to the remote controller to configure the UI to display
11 information related to the control of a controlled device and to receive user input
12 for the control of the controlled device;

13 receive from the remote controller data for controlling the controlled
14 device; and

15 send control commands to the controlled device, the control commands
16 being based on the received control data.

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19. A system as defined in claim 28, wherein the controlled device
20 comprises a wireless device.

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22 **30.** A system as defined in claim 28, wherein the UI comprises a display
23 screen.

1 **31.** A system as defined in claim 28, wherein the UI comprises a display
2 screen and user input means.
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4 **32.** A system as defined in claim 28, wherein the information defining
5 operational parameters of the UI comprise a schema.
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2 **33.** A system comprising:

3 means for sending information to configure a user interface (UI) in a first
4 wireless device;

5 means for receiving from the first wireless device control data for
6 controlling a second wireless device, the control data being based on user
7 interaction with the UI of the first wireless device; and

8 means for sending control commands to the second wireless device, the
9 control commands being based on the received control data.

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